

METHODS FOR ENHANCING THE PRODUCTION OF VIRAL VACCINES
IN CELL CULTURE

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ABSTRACT OF THE DISCLOSURE

Methods for enhancing the production of viral vaccines in animal cell culture are
10 described. These methods rely on the manipulation of the cellular levels of certain interferon
induced antiviral activities, in particular, cellular levels of double-stranded RNA (dsRNA)
dependent kinase (PKR) and 2'-5' oligoadenylate synthetase (2-5A synthetase). In cell cultures
deficient for PKR or 2-5A synthetase, viral yield is enhanced by several orders of magnitude
over cell cultures with normal levels of these proteins making these cell cultures useful for the
15 production of viral vaccines.

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550086 v1/PA
BSG6011.DOC